

ALPHA

Alpha

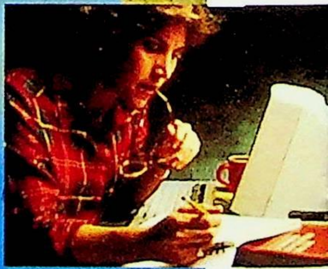
digital

מערכות Alpha של דיג'יטל

- מובילות ביחס עלות/ביצועים
- יתרון ה־ 64 ביט
- ה־ UNIX החזק ביותר
- טכנולוגית PCI כסטנדרט

לשיאים חדשים.
דיגיטל

Alpha



- יותר מ־6,400 יישומים זמינים
- 3 שנות אחריות
- 3 מערכות הפעלה

Alpha

ALPHA™ GENERATION

מאי 95

משפחת מחשבי AlphaGeneration

בשרתים ותחנות העבודה ממשפחת אלפא מיישמת חברת דיגיטל טכנולוגיה ייחודית, המשלבת עוצמות וביצועים של מחשבי־על עם ערוצי תקשורת ומארזים האופייניים למחשבי PC, בסטנדרטים בין לאומיים:

- ארכיטקטורת 64 ביט
- 300 MHz+
- ערוצי תקשורת PCI
- תמיכה ב־3 מערכות הפעלה (Windows NT, Digital UNIX, OpenVMS)



השילוב של תכונות אלה, מאפשר למשתמשים ליישם מערכות מיחשוב מסחריות או טכניות ביחס עלות/ביצועים ללא תחרות וכן להפעיל יישומים תובעניים הדורשים מחשבים עם ביצועים גבוהים במיוחד.

יותר מ־6,400 יישומים זמינים היום למחשבי אלפא. מאות בתי תוכנה בארץ ובעולם מספקים למשתמשים יישומים בכל תחומי המיחשוב הקלאסיים ובתחומים חדשים גם יחד.

כניסתם של מחשבי אלפא לעולם המיחשוב קבעה סטנדרטים טכנולוגיים חדשים ושיאים חדשים, בביצועים ובעלות/ביצועים האופייניים למשפחת מחשבי אלפא בלבד.



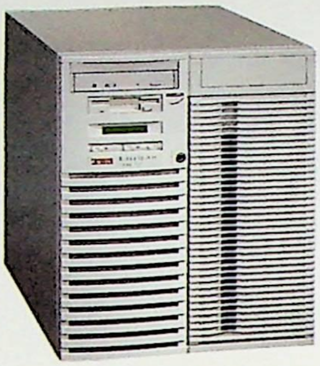
אלפי אירגונים המשתמשים היום במערכות מיחשוב המבוססות על ארכיטקטורת אלפא כבר נמצאים בעידן חדש של ביצועים ועלויות מיחשוב.

אותם אירגונים הבינו כי טכנולוגיית אלפא שברה את כל השיאים הטכנולוגיים ופתחה דף חדש בהסטוריה של עולם המחשבים.

לשיאים חדשים. אלפא.



ג'דול שנתי של 60%
בהתקנות מערכות Alpha בארץ



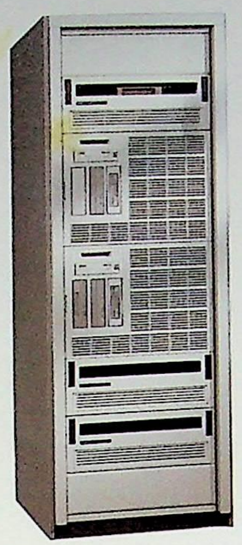
System	AlphaServer 400 4/166 Workgroup Server	AlphaServer 1000 4/233 Workgroup Server
CPU features		
Number of processors	1	1
CPU/clock speed	166 MHz	233 MHz
Cache size (on chip/on board)	8 KB I-cache, 8 KB D-cache/512 KB per processor	8 KB I-cache, 8 KB D-cache/2 MB per processor
In-cabinet CPU upgrade	Yes	Yes
Performance		
TPS	Up to 130	Up to 300
SPECint92®	116.8	165.3
SPECfp92®	139.7	222.9
SPECrate_int92	2,782	3,989
SPECrate_fp92	3,346	5,356
LINPACK 1000 X 1000 (DP MFLOPS)	108.8	169.0
I/O features		
Maximum memory	192 MB	512 MB
Maximum disk capacity (in cabinet/total)	8.4 GB/44.1 GB	14 GB/220 GB
Maximum I/O bandwidth	132 MB/sec	132 MB/sec
I/O support (maximum configuration)	3 PCI slots, 3 EISA slots, 1 PCI/ISA slot, SCSI-2, Ethernet, FDDI, Token Ring**	2 PCI slots, 7 EISA slots, 1 PCI/EISA slot, Fast SCSI-2, RAID, Ethernet, FDDI, synch. comm., FWD SCSI-2**, DSSI, Prestoserve®**, Token Ring
Reliability/high availability features		
OpenVMS Cluster	Ethernet, FDDI	Ethernet, DSSI™, FDDI
Advantage Cluster™ (Digital UNIX)	No	Yes: DECsafe™ ASE**
High availability features	Auto reboot, system management, optional external disk hot swap, memory failover, error logging, optional uninterruptible power supply (UPS)	Auto reboot, thermal management, optional redundant power system, remote system management RAID, disk hot swap, dual SCSI backplane, memory failover, ECC memory, ECC cache, error logging, optional uninterruptible power supply (UPS)
Software features		
Operating systems	Digital UNIX, OpenVMS, Windows NT	Digital UNIX, OpenVMS, Windows NT

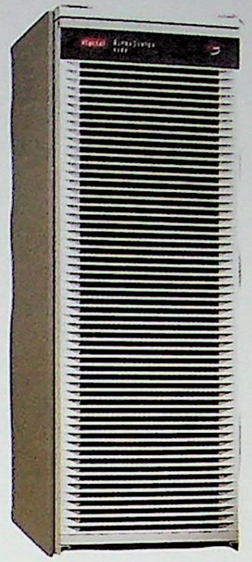
* Digital UNIX Version 3.2 on Alpha is an X-Open UNIX '93 branded product.
** Available with upcoming hardware or software release.
*** Pedestal system only.

AlphaServers











למעלה מ־1.500 מערכות
Alpha הותקנו הארץ

שרתי Alpha:
1:10 המחיר...
1x200 ביצועים

System	AlphaServer 2000 4/233 and 4/275 Workgroup Servers		AlphaServer 2100 4/233, 4/233 CAB, 4/275, 4/275 CAB, 5/250, and 5/250 CAB Departmental Servers			AlphaServer 8200 5/300 High End Departmental Server	AlphaServer 8400 5/300 Enterprise Server
CPU features	**4/233**	**4/275**	**4/233**	**4/275**	**5/250**		
Number of processors	Up to 2	Up to 2	Up to 4	Up to 4	Up to 4	Up to 6	Up to 12
CPU/clock speed	233 MHz	275 MHz	233 MHz	275 MHz	250 MHz	300 MHz	300 MHz
Cache size (on chip/on board)	16 KB I-cache, 16 KB D-cache/ 4 MB per processor	16 KB I-cache, 16 KB D-cache/ 4 MB per processor	16 KB I-cache, 16 KB D-cache/ 1 MB per processor	16 KB I-cache, 16 KB D-cache/ 4 MB per processor	8 KB I-cache, 8 KB D-cache 96 KB combined/4 MB per processor	8 KB I-cache, 8 KB D-cache, 96 KB combined /4 MB per processor	8 KB I-cache, 8 KB D-cache, 96 KB combined/ 4 MB per processor
In-cabinet CPU upgrade	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Performance							
TPS	Up to 400	Up to 625	Up to 675	Up to 850	Up to 1,200	Over 2,000	Over 3,000
SPECint92®	177.3	200.1	177.3	200.1	277.1	336.0	336.0
SPECfp92®	215.0	292.6	215.0	292.6	410.4	507.0	507.0
SPECrate_int92	Up to 8,284	Up to 9,423	Up to 11,112	Up to 18,036	Up to 24,751	Up to 45,158	Up to 84,228
SPECrate_fp92	Up to 9,676	Up to 13,242	Up to 13,024	Up to 25,997	Up to 37,926	Up to 71,285	Up to 140,571
LINPACK 1000 X 1000 (DP MFLOPS)	Up to 240.9	Up to 347.9	Up to 407.6	Up to 642.7	Up to 920.3	Up to 1,712	Up to 2,191
I/O features							
Maximum memory	1 GB		2 GB (1 GB for 4-CPU Model)			6 GB	14 GB
Maximum disk capacity (in cabinet/total)	16 GB/500 GB		2100:32 GB/500 GB; 2100 cab: 172 GB/650 GB			160 GB/Over 10 TB	192 GB/Over 10 TB
Maximum I/O bandwidth	132 MB/sec		132 MB/sec			1.2 GB/sec	1.2 GB/sec
I/O support (maximum configuration)	3 PCI slots, 7 EISA slots, Fast SCSI-2, FW SCSI-2, RAID, Ethernet, FDDI, synch. comm., FWD SCSI-2, DSSI, Prestoserve, Token Ring		3 PCI slots, 8 EISA slots, fast SCSI-2, FW SCSI-2, RAID, Ethernet, FDDI, synch. comm., FWD SCSI-2, DSSI, Prestoserve, Token Ring			108 PCI slots, 8 EISA slots, Ethernet, FDDI, Token Ring, synch. comm. Fast SCSI-2, FWD SCSI-2, RAID, DSSI, Prestoserve, HiPPI, Fiberchannel, IPI	144 PCI slots, EISA, XMI, Furturebus+®, CI, Ethernet, FDDI, Token Ring, synch. comm., Fast SCSI-2, FWD SCSI-2, RAID, DSSI, Prestoserve, HiPPI, Fiberchannel, IPI
Reliability/high availability features							
OpenVMS Cluster	Ethernet, DSSI, FDDI		Ethernet, DSSI, FDDI			Ethernet, DSSI, FDDI, CI	Ethernet, DSSI, FDDI, CI
Advantage Cluster™ (Digital UNIX)	Yes: DECsafe ASE		Yes; DECsafe ASE			Yes; DECsafe ASE, Parallel Software Environment	Yes; DECsafe ASE, Parallel Software Environment
High availability features	Auto reboot, thermal management, redundant power system, remote system management, RAID, disk hot swap, dual SCSI backplane, memory failover, ECC memory, ECC cache, SMP CPU failover, error logging, optional uninterruptible power supply (UPS)		Auto reboot, thermal management, redundant power system, remote system management, RAID, disk hot swap, dual SCSI backplane***, memory failover, ECC memory, ECC cache, SMP CPU failover, error logging, optional uninterruptible power supply (UPS). Also with CAB:multiple systems, multiple power sources, dual-ported storage, optional intergrated UPS			Auto reboot, thermal management, optional redundant power system, remote system management, RAID, disk hot swap, memory failover, ECC memory, ECC cache, SMP CPU failover, error logging, optional uninterruptible power supply (UPS)	Auto reboot, thermal management, optional redundant power system, remote system management, RAID, disk hot swap, memory failover, ECC memory, ECC cache, SMP CPU failover, error logging, optional uninterruptible power supply (UPS)
Software features							
Operating systems	Digital UNIX, OpenVMS, Windows NT		Digital UNIX, OpenVMS, Windows NT			Digital UNIX, OpenVMS (Windows NT in the future)	Digital UNIX, OpenVMS (Windows NT in the future)

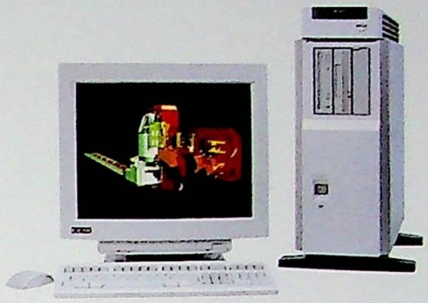
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AlphaStations





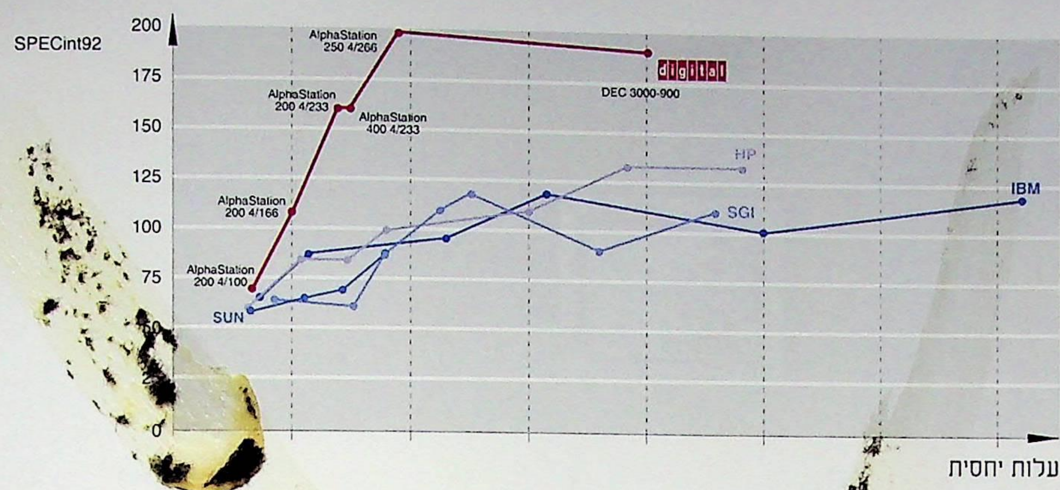




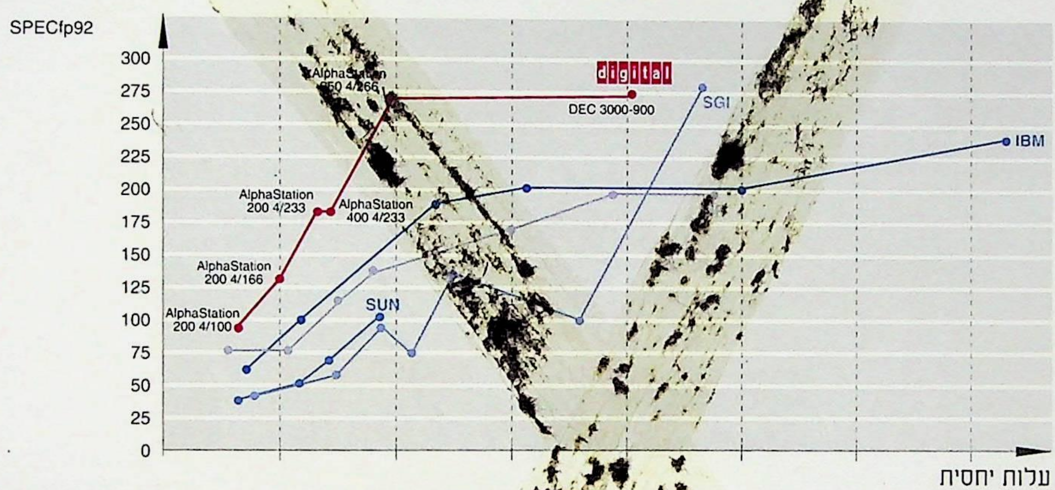
System	AlphaStation 200 4/100 Entry-Level Desktop Workstation	AlphaStation 200 4/166 and 200 4/233 Desktop Workstation		AlphaStation 250 4/266 Desktop Workstation	DEC 3000 Model 900 AXP Deskside Workstation
CPU features		**4/166**	**4/233**		
CPU/clock speed	100 MHz	166 MHz	233 MHz	266 MHz	275 MHz
Cache size (on chip/on board)	8 KB I-cache, 8 KB D-cache/512 KB	8 KB I-cache, 8 KB D-cache/512 KB	16 KB I-cache, 16 KB D-cache/512 KB	16 KB I-cache, 16 KB D-cache/2 MB	16 KB I-cache, 16 KB D-cache/2 MB
Performance					
SPECint92	74.5	116.1	157.7	198.6	200.6
SPECfp92	95.2	134.8	183.9	262.5	264.1
SPECrate_int92	1,749.2	2,778	3,772	4,573.5	4,702
SPECrate_fp92	2,258.9	3,160	4,415	6,188.6	6,293
LINPACK 1000 X 1000 (DP MFLOPS)	71.95	93.8	138.0	193.6	192.6
I/O features					
Maximum memory	192 MB	192 MB		512 MB**	1 GB
Maximum disk capacity (in cabinet/total)	3.15 GB/29.4 GB	3.15 GB/29.4 GB		4.2 GB/29.4 GB	8.4 GB/170 GB
Maximum I/O bandwidth	132 MB/sec.	132 MB/sec.		132 MB/sec	100 MB/sec
I/O support (maximum configuration)	1 PCI slot, 1 ISA slot, 1 PCI/ISA slot, built-in-Ethernet, FDDI, Token Ring	2 PCI/ISA slots, 1 ISA slot; SCSI-2 built-in Ethernet, FDDI, Token Ring		1 PCI slot, 1 PC/ISA slot, 1 ISA slot: Fast SCSI-2: built-in Ethernet, FDDI, Token Ring**	6-slot TURBOchannel, 12 Fast SCSI-2 Ethernet, FDDI, ISDN**, Prestoserve, VME
Graphics and multimedia	DEC864, ATI Mach 64, ATI Video Basic, ZLXp-Es, FullVideo™ Supreme**, built-in stereo-quality audio	DEC864, ATI Mach 64, ZLXp-Es, built-in stereo=quality audio		DEC864, ZLXp-Es, FullVideo Supreme, built-in stereo-quality audio	ZLX-Es, ZLX-L1, ZLX-M2, J300. voice-quality audio
Reliability/high availability features					
cluster support (OpenVMS)	Ethernet, FDDI	Ethernet, FDDI		Ethernet, FDDI	Ethernet, FDDI
Workstation farms (Digital UNIX)	Ethernet, FDDI	Ethernet, FDDI		Ethernet, FDDI	Ethernet, FDDI
High availability features	Disk shadowing, POLYCENTER™ Advanced File System	Disk shadowing, POLYCENTER Advanced File System		Disk shadowing POLYCENTER Advanced File System	Disk shadowing, DECsafe ASE**, POLYCENTER Advanced File System
Software features					
Operating systems	Digital UNIX, OpenVMS, Windows NT	Digital UNIX, OpenVMS, Windows NT		Digital UNIX, OpenVMS, Windows NT	Digital UNIX, OpenVMS

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Workstations Price/Performance

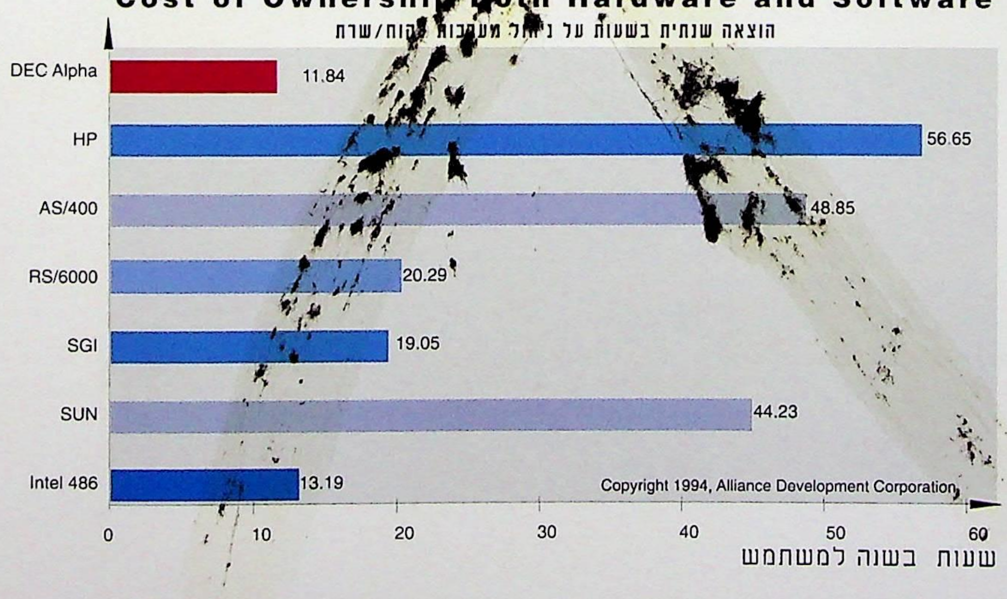


Workstations Price/Performance



Cost of Ownership Both Hardware and Software

הוצאה שנתית בשעות על ניהול מערכות לקוח/שרת



דיגיטל: מובילים ביחס עלות/ביצוע

digital

דיגיטל אקויפמנט (דק) בע"מ
בית דיגיטל, צומת אכדיה הרצליה 46 733
ת.ד. 2033 הרצליה 120 46 טל. 593222 - 09